

**METHOD AND SYSTEM FOR PROVIDING DATA INTEGRITY IN
STORAGE SYSTEMS**

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ABSTRACT OF THE DISCLOSURE

A method and system for performing data integrity process is provided. The method includes selecting a
15 cyclic redundancy code ("CRC") mode from amongst
append, validate and keep, and validate and remove
mode. If the append mode is selected, then CRC is
appended after each data block boundary. A CRC seed
value is incremented for each data block providing a
20 unique CRC value for each data block. If validate and
keep mode is selected, then CRC accompanying any data
is compared to CRC that may have been accumulated. If
validate and remove mode is selected, then CRC is first
validated and then CRC is removed before data is sent
25 out. The system includes CRC logic that allows firmware
running on an adapter to select one of plural CRC modes

including append, validate and keep, and validate and
remove mode.